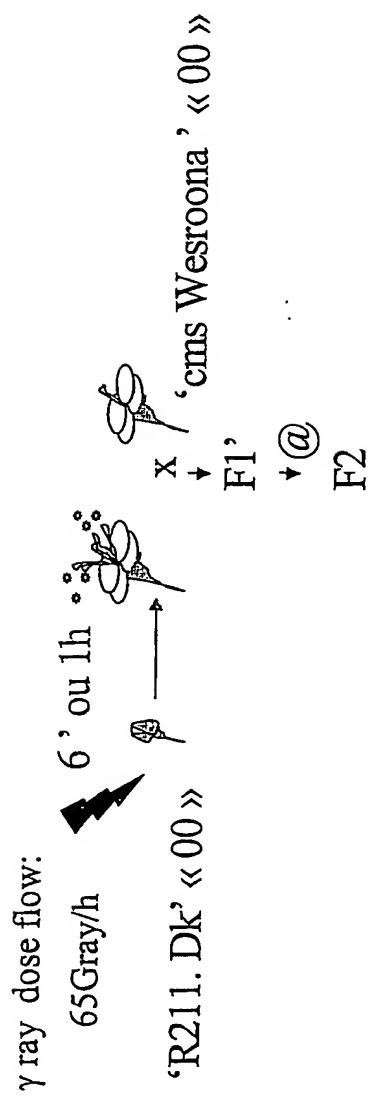


Fig 1



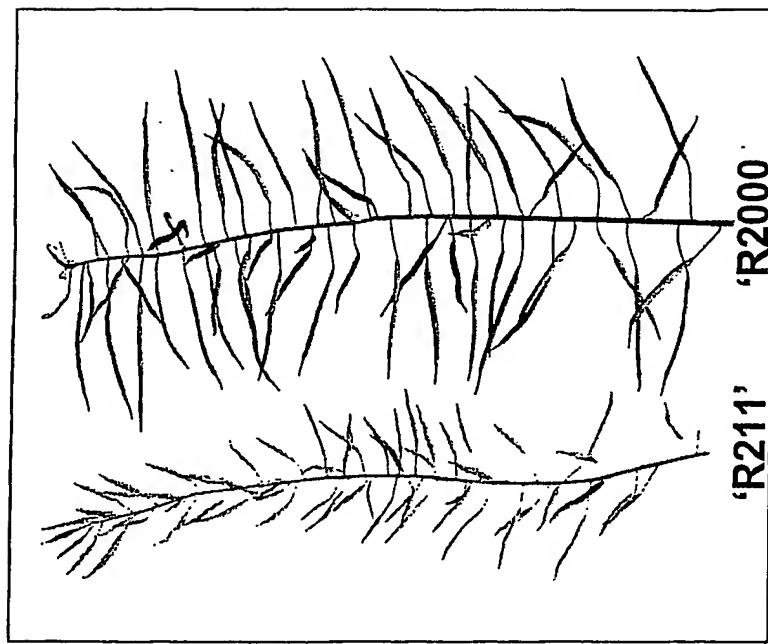


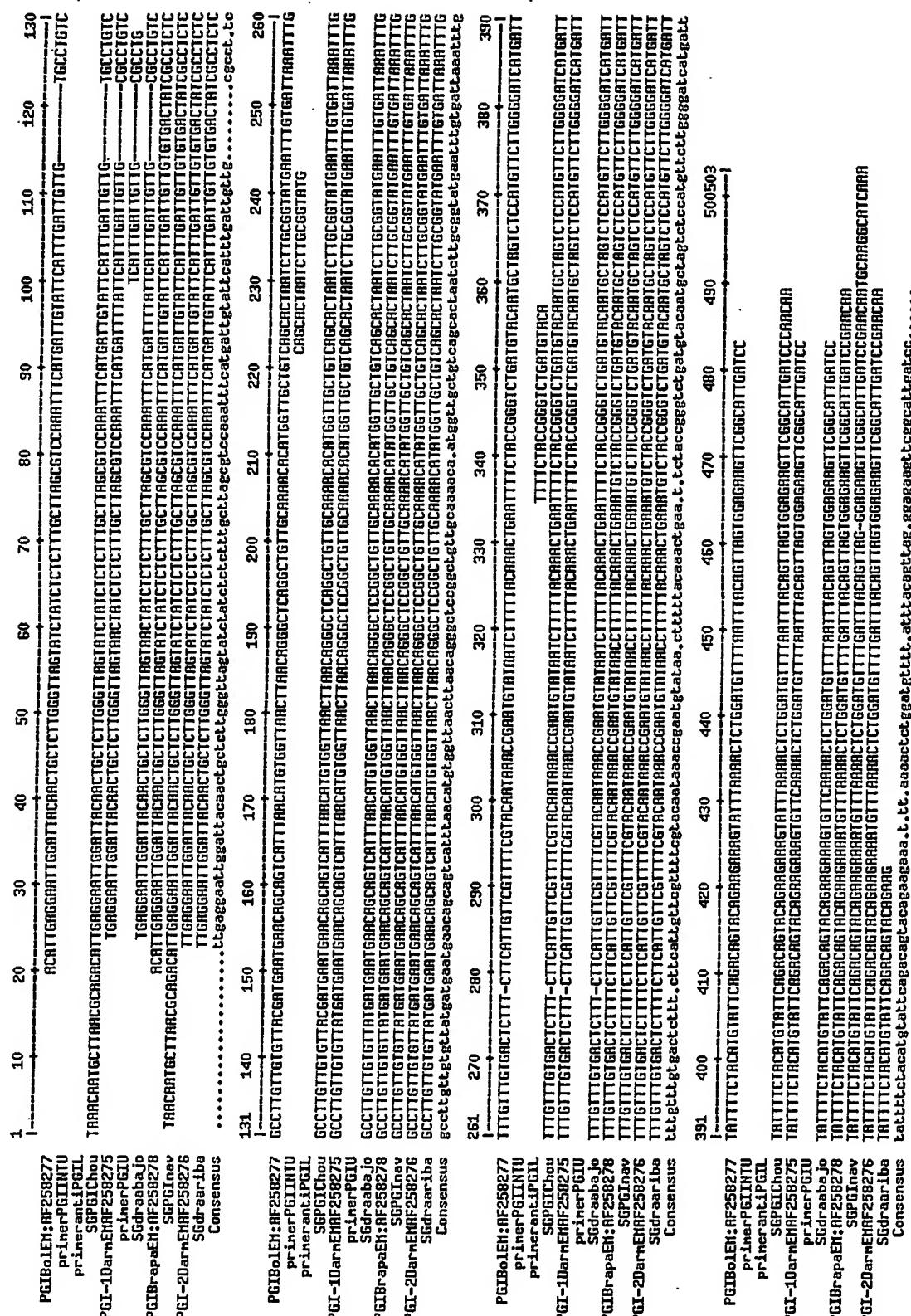
Fig. 1: Seed set on 'R211' and 'R2000'

Fig 2

Genotype	Selfings	Test Crosses
Drakkar	29.3	
Pactol	23.1	
R211	11.2	25.5
R2000	26.5 (24.0 – 31.1)	27.0 (24.0 – 28.7)

Fig 3

Fig 4



BEST AVAILABLE COPY

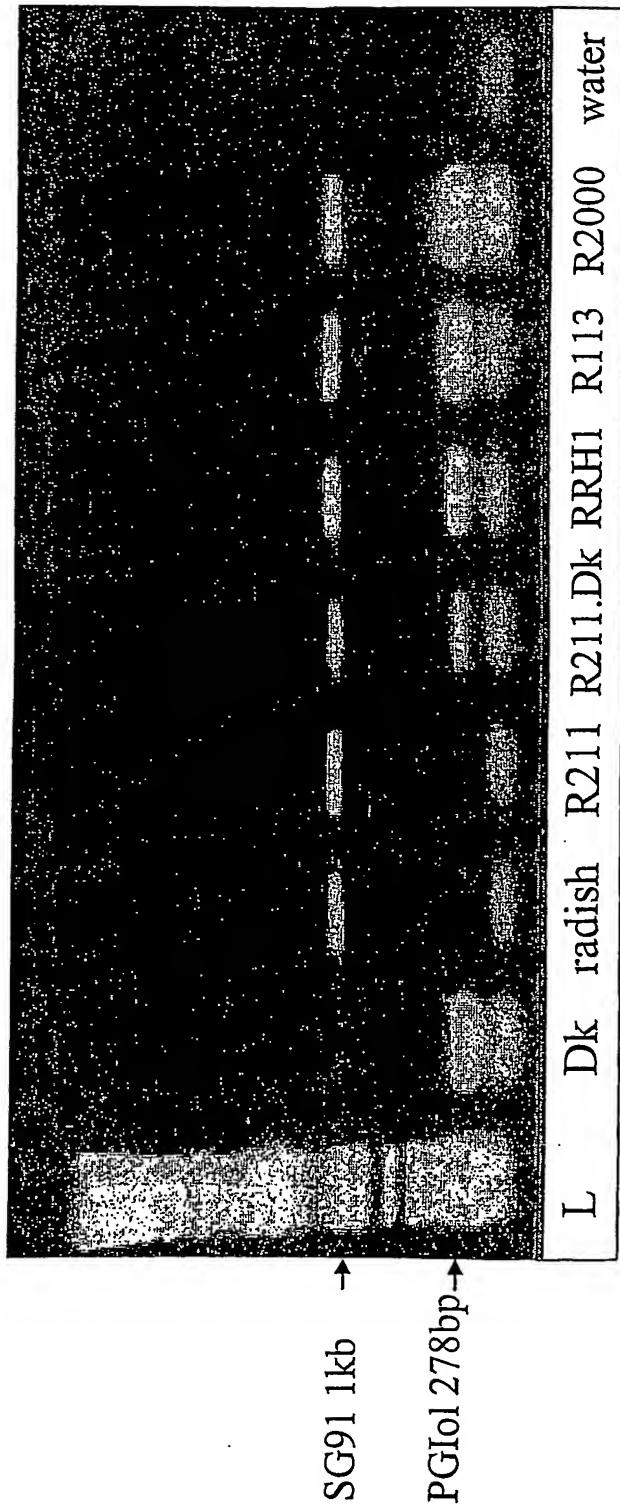
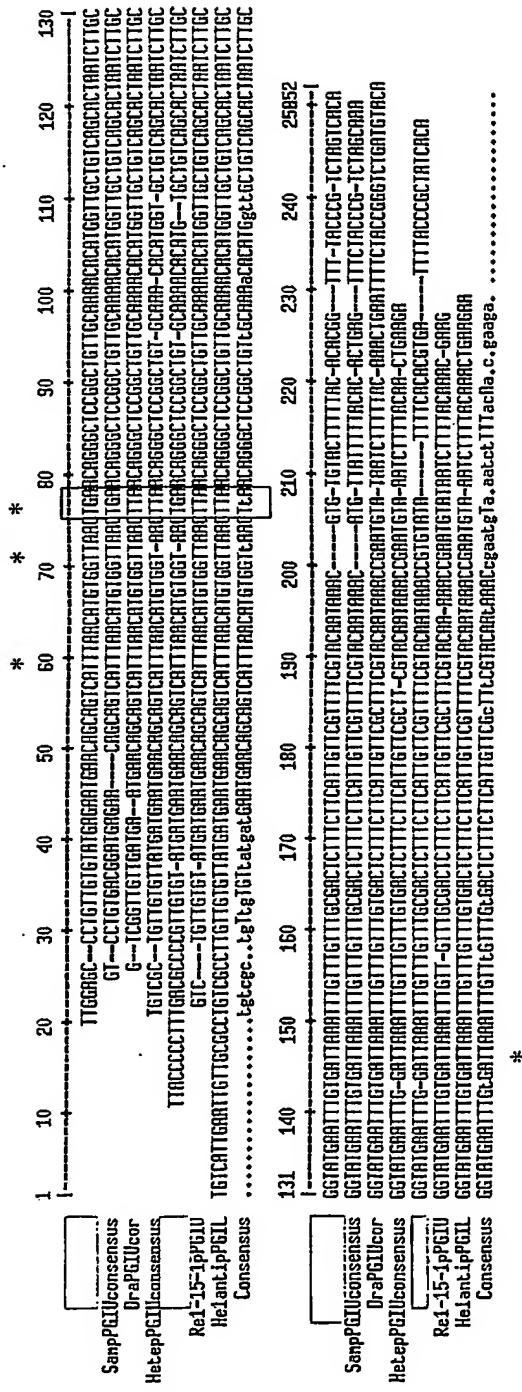


Fig 5

Fig 6



Mse1 sites

355p	11	5	70	105bp
------	----	---	----	-------

T in Drakkar and R2000

MseI restriction enzyme cut DNA sequences at the T/TAAT sites (*)

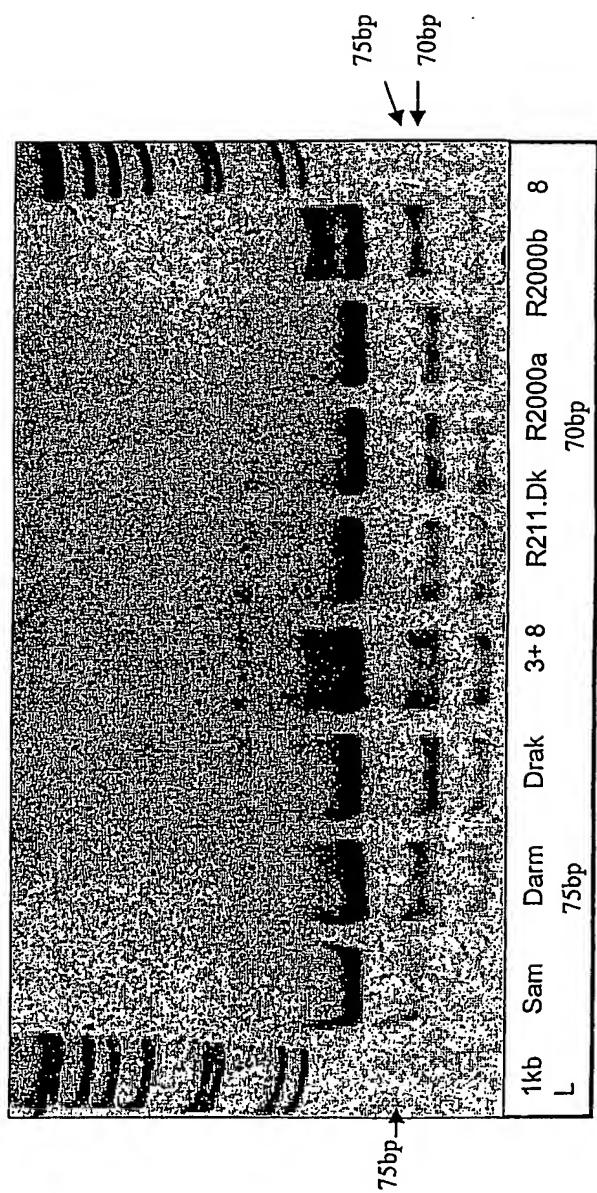


Fig 7

Fig 8

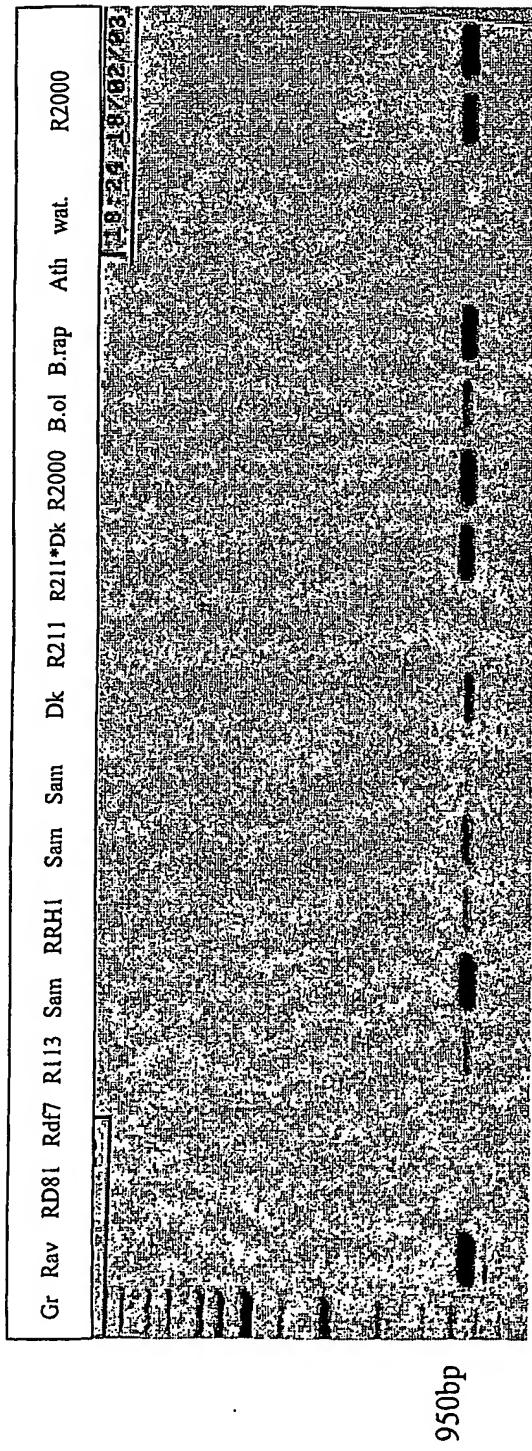


Fig 9

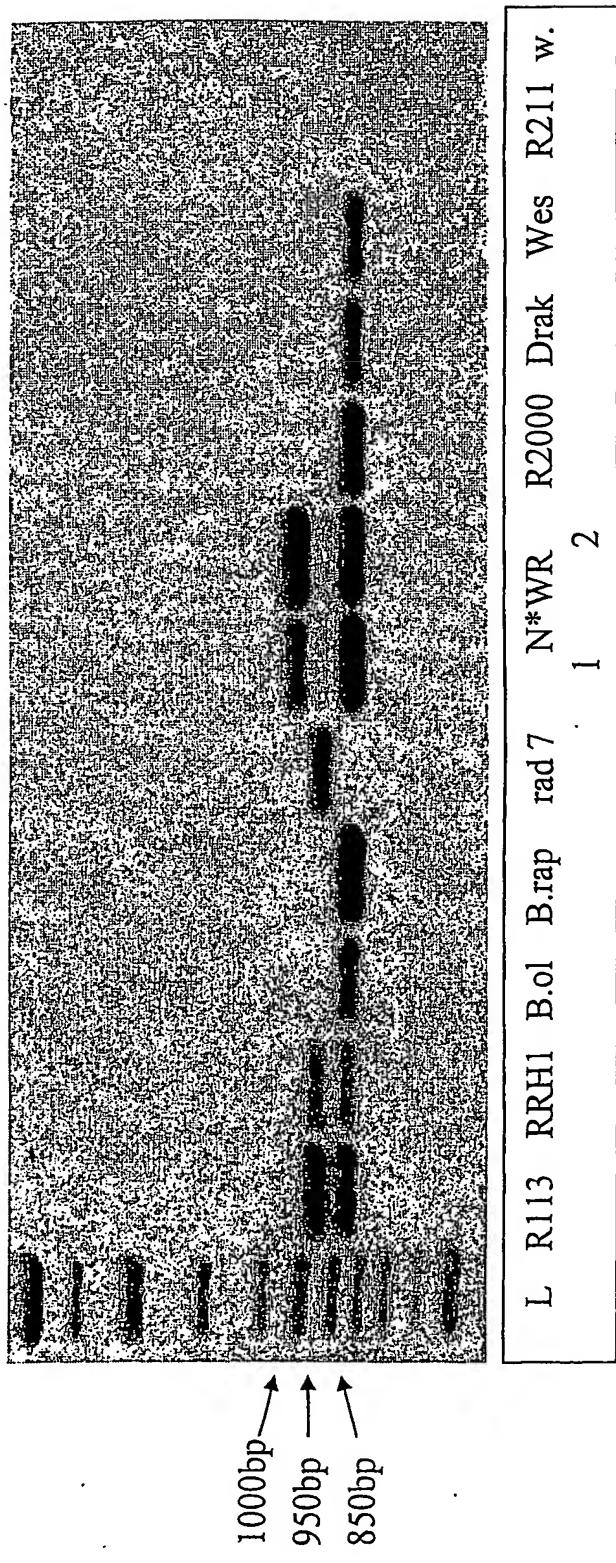
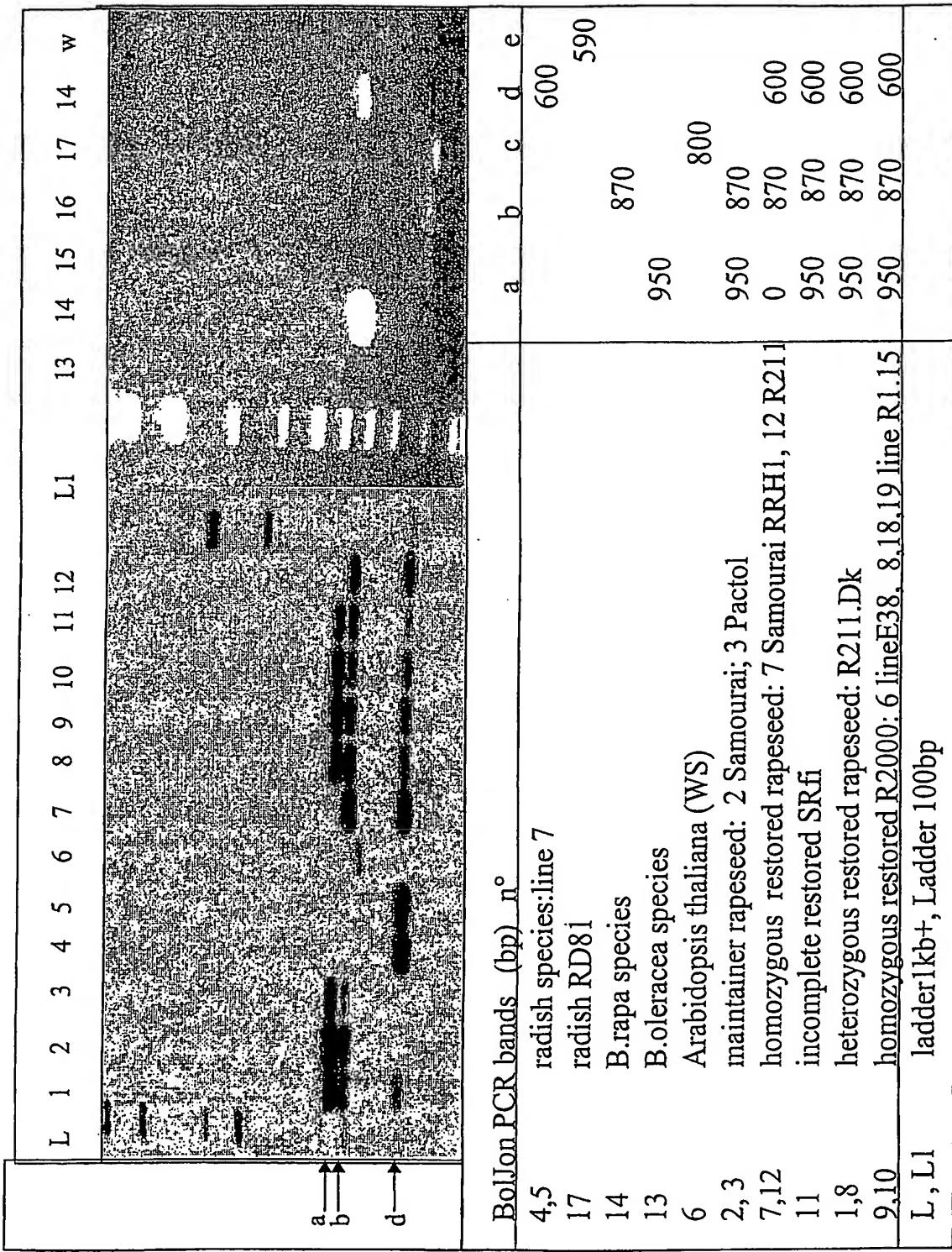


Fig 10



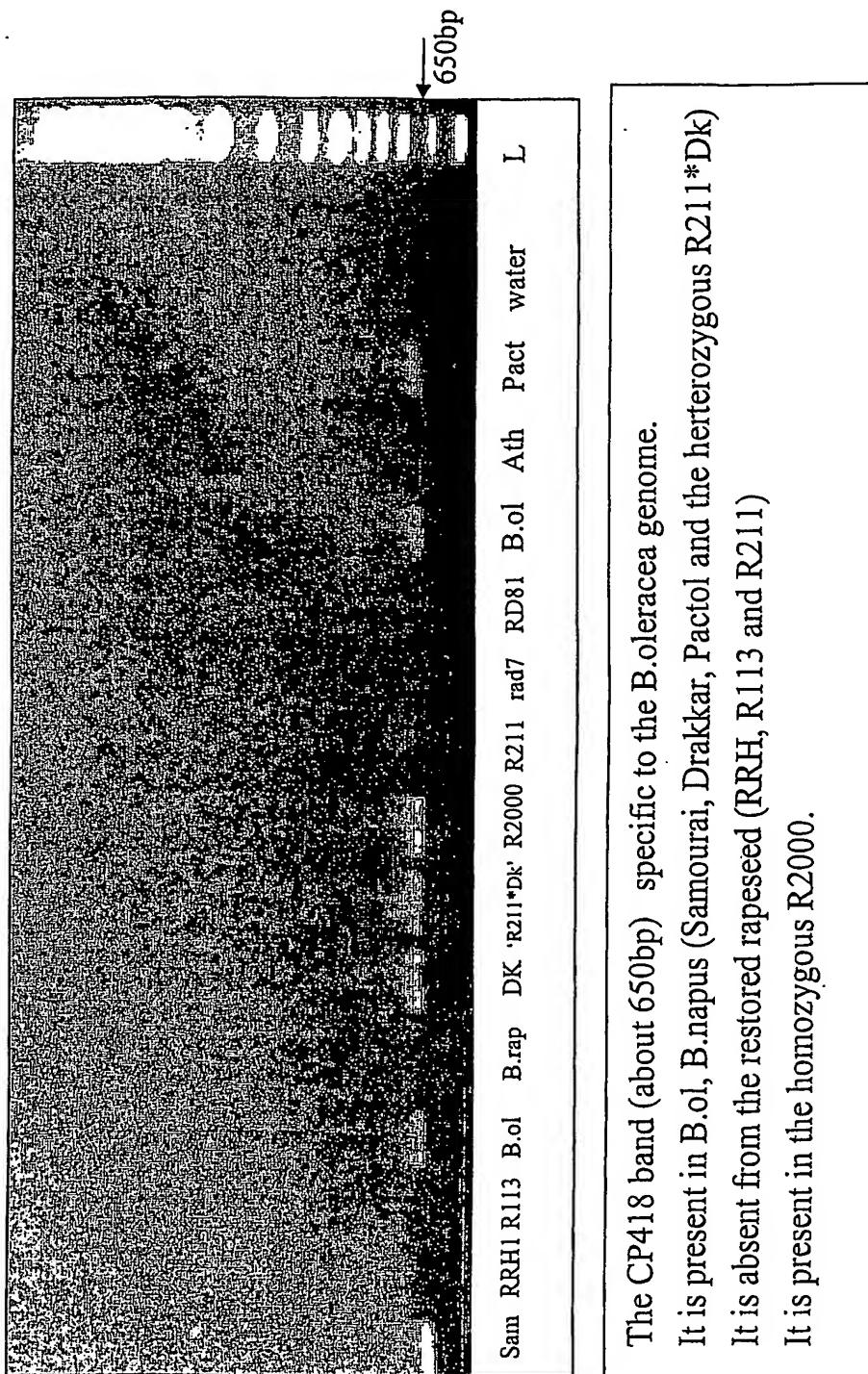


Fig 11

Figure 12

Figure 13 (a)

Figure 13 (b)

	301	<--- PGIol antL 341	350
consePGIintTUNDrakka	ATCTTTTAC AAACTGAA	TT TTCTACCGGG TCTGATGTAC A	ATGCTAGTC
consensWesrPGI	ATCTTTTAC AAACTGAA	TT TTCTACCGGG TCTGATGTAC A	ATGCTAGTC
consePGIintUNTR113	ATCTTTTAC AAACTGAA	TT TTCTACCGGG TCTGATGTAC A	ATGCTAGTC
consePGIintUNTBrapaA	ATCTTTTAC AAACTGAA	TT TTCTACCGGG TCTGATGTAC A	ATGCTAGTC
ConsePGIintUNTRRH1	ATCTTTTAC AAACTGAA	TT TTCTACCGGG TCTGATGTAC A	ATGCTAGTC
PGIBo-EM:AF258277	ATCTTTTAC AAACTGAA	TT TTCTACCGGG TCTGATGTAC A	ATGCTAGTC
PGIBra-EM:AF258278	ACCTTTTAC AAACTGAA	AT GTCTACCGGG TCTGATGTAC A	ATGCTAGTC
consePGIintUNTBolera	ATCTTTTAC AAACTGAA	TT TTCTACCGGG TCTGATGTAC A	ATGCTAGTC
consePGIintUNTR2000	ATCTTTTAC AAACTGAA	TT TTCTACCGGG TCTGATGTAC A	ATGCTAGTC
Consensus	atcttttac aaactgaa	tt ttctacccggg tctgatgtac a	atgctAGTC

Figure 14 (a)

201	PGI int U --->	250
consePGIintTUNDrakka	CTGT CAGCAC TAATCTTGC GGTATG	AATT TGTGATTAAA TTTGTTTGT
consensWesrPGI	CTGT CAGCAC TAATCTTGC GGTATG	AATT TGTGATTAAA TTTGTTTGT
consePGIintUNTR113	CTGT CAGCAC TAATCTTGC GGTATG	AATT TGTGATTAAA TTTGTTTGT
consePGIintUNTBrapaA	CTGT CAGCAC TAATCTTGC GGTATG	AATT TGTGATTAAA TTTGTTTGT
ConsePGIintUNTRRH1	CTGT CAGCAC TAATCTTGC GGTATG	AATT TGTGATTAAA TTTGTTTGT
PGIBo-EM:AF258277	CTGT CAGCAC TAATCTTGC GGTATG	AATT TGTGATTAAA TTTGTTTGT
PGIBra-EM:AF258278	CTGT CAGCAC TAATCTTGC GGTATG	AATT TGTGATTAAA TTTGTTTGT
consePGIintUNTBo	CTGT CAGCAC TAATCTTGC GGTATG	AATT TGTGATTAAA TTTGTTTGT
consePGIintUNTR2000	CTGT CAGCAC TAATCTTGC GGTATG	AATT TGTGATTAAA TTTGTTTGT
Consensus	ctgtcagcac taatcttgc ggtatg	aatt tgtgattaaa tttgtttgt
	251	300
consePGIintTUNDrakka	TGTGACTCTT T.CTTCATTG TTCGTTTCG TACAATAAAC	CGAATGTATA
consensWesrPGI	TGTGACTCTT T.CTTCATTG TTCGTTTCG TACAATAAAC	CGAATGTATA
consePGIintUNTR113	TGCGACTCTT T.CTTCATTG TTCGTTTCG TACAATAAAC	..AATGTATA
consePGIintUNTBrapaA	TGCGACTCTT T.CTTCATTG TTCGTTTCG TACAATAAAC	..AATGTATA
ConsePGIintUNTRRH1	TGCGACTCTT T.CTTCATTG TTCGTTTCG TACAATAAAC	..AATGTATA
PGIBo-EM:AF258277	TGTGACTCTT T.CTTCATTG TTCGTTTCG TACAATAAAC	CGAATGTATA
PGIBra-EM:AF258278	TGTGACTCTT TTCCTTCATTG TTCGTTTCG TACAATAAAC	CGAATGTATA
consePGIintUNTBo	TG.GACTCTT T.CTTCATTG TTCGTTTCG TACAATAAAC	CGAATGTATA
consePGIintUNTR2000	TGTGACTCTT T.CTTCATTG TTCGTTTCG TACAATAAAC	CGAATGTATA
Consensus	tg.gactctt t_citcatttgc ttgcgtttcg tacaataaac	cgaaatgtata
	ε	ε3
	301	350
consePGIintTUNDrakka	ATCTTTTAC AACTGAA	<--- PGIol antL 341
consensWesrPGI	ATCTTTTAC AACTGAA	TT TTCTACCGGG TCTGATGTAC A ATGCTAGTC
consePGIintUNTR113	ATCTTTTAC AACTGAA	TT TTCTACCGGG TCTGATGTAC A ATGCTAGTC
consePGIintUNTBrapaA	ATCTTTTAC AACTGAA	TT TTCTACCGGG TCTGATGTAC A ATGCTAGTC
ConsePGIintUNTRRH1	ATCTTTTAC AACTGAA	TT TTCTACCGGG TCTGATGTAC A ATGCTAGTC
PGIBo-EM:AF258277	ATCTTTTAC AACTGAA	TT TTCTACCGGG TCTGATGTAC A ATGCTAGTC
PGIBra-EM:AF258278	ACCTTTTAC AACTGAA	AT GTCTACCGGG TCTGATGTAC A ATGCTAGTC
consePGIintUNTBo	ATCTTTTAC AACTGAA	TT TTCTACCGGG TCTGATGTAC A ATGCTAGTC
consePGIintUNTR2000	ATCTTTT.AC AACTGAA	TT TTCTACCGGG TCTGATGTAC A ATGCTAGTC
Consensus	atcttttac aactgaa	tt ttctacccggg tctgatgtac a atgctAGTC
	ε	
	351	400
consePGIintTUNDrakka	TCCATGTTCT TGGGGATCAT GATTTATTT CTACATGTAT	TCAGACAGTA
consensWesrPGI	TCCATGTTCT TGGGGATCAT GATTTATTT CT.CATGTAT	TCAGACAGTA
consePGIintUNTR113	TCCATGTTCT TGGGGATCAT GATTTATTT CTACATGTGT	TCAGCCAGTA
consePGIintUNTBrapaA	TCCATGTTCT TGGGGATCAT GATTTATTT CTACATGTGT	TCAGCCAGTA
ConsePGIintUNTRRH1	TCCATGTTCT TGGGGATCAT GATTTATTT CTACATGTGT	TCAGCCAGTA
PGIBo-EM:AF258277	TCCATGTTCT TGGGGATCAT GATTTATTT CTACATGTAT	TCAGACAGTA
PGIBra-EM:AF258278	TCCATGTTCT TGGGGATCAT GATTTATTT CTACATGTAT	TCAGACAGTA
consePGIintUNTBo	TCCATGTTCT TGGGGATCAT GATTTATTT CTACATGTAT	TCAGACAGTA
consePGIintUNTR2000	TCCATGTTCT TGGGGATCAT GATTTATTT CTACATGTAT	TCAGACAGTA
Consensus	TCCATGTTCT TGGGGATCAT GATTTATTT CTaCATGTAT	TCAGACAGTA
	ε 5	ε 6
		450
consePGIintTUNDrakka	CAGAAGAAAG TGTT CAAAAC TCTGGATGTT TTAATTTACA	GTTAGTGGAG
consensWesrPGI	CAGAAGAAAG TGTT CAAAAC TCTGGATGTT TTAATTTACA	GTTAGTGGAG
consePGIintUNTR113	CAGAAGAAAG TGTT CAAAAC TCTGGATGTT TTAATTTACA	GTTAGTGGAG
consePGIintUNTBrapaA	CAGAAGAAAG TGTT CAAAAC TCTGGATGTT TTAATTTACA	GTTAGTGGAG
ConsePGIintUNTRRH1	CAGAAGAAAG TGTT CAAAAC TCTGGATGTT TTAATTTACA	GTTAGTGGAG
PGIBo-EM:AF258277	CAGAAGAAAG TATT CAAAAC TCTGGATGTT TTAATTTACA	GTTAGTGGAG
PGIBra-EM:AF258278	CAGAAGAAAG TGTT CAAAAC TCTGGATGTT TTGATTTACA	GTTAGTGGAG
consePGIintUNTBo	CAGAAGAAAG TGTT CAAAAC TCTGGATGTT TTAATTTACA	GTTAGTGGAG
consePGIintUNTR2000	CAGAAGAAAG TGTT CAAAAC TCTGGATGTT TTAATTTACA	GTTAGTGGAG
Consensus	CAGAAGAAAG TGTT CAAAAC TCTGGATGTT TTaATTTACA	GTTAGTGGAG
	ε 7	ε

Figure 14 (b)

	451	end of Data Base PGI sequences	500
consePGIintTUNDrakka	AAGTCGGCA	TTGATCCGAA CAATGCATTT GCATTTGGG ACTGGGTTGG	
consensWesrPGI	AAGTCGGCA	TTGATCCGAA CAATGCATTT GCATTTGGG ACTGGGTTGG	
consePGIintUNTR113	AAGTCGGCA	TTGATCCGAA CAATGCATTT GCATTTGGG ACTGGGTTGG	
consePGIintUNTBrapaA	AAGTCGGCA	TTGATCCGAA CAATGCATTT GCATTTGGG ACTGGGTTGG	
ConsePGIintUNTRRH1	AAGTCGGCA	TTGATCCGAA CAATGCATTT GCATTTGGG ACTGGGTTGG	
PGIBo-EM:AF258277	AAGTCGGCA	TTGATCCGAA CAA.....	
PGIBra-EM:AF258278	AAGTCGGCA	TTGATCCGAA CAA.....	
consePGIintUNTBolera	AAGTCGGCA	TTGATCCGAA CAATGCATTT GCATTTGGG ACTGGGTTGG	
consePGIintUNTR2000	AAGTCGGCA	TTGATCCGAA CAATGCATTT GCATTTGGG ACTGGGTTGG	
Consensus	AAGTCGGCA	TTGATCCgaa caatgcattt gcattttggg actgggttgg	
	501		550
consePGIintTUNDrakka	TGGAAGGTAC	AGTGGTAAGT GCTTGTAT TTGGTTGTAT AAATTCCTCG	
consensWesrPGI	TGGAAGGTAC	AGTGGTAAGT GCTTGTAT TTGGTTGTAT AAATTCCTCG	
consePGIintUNTR113	TGGAAGGTAC	AGTGGTAAGT GCTTGTAT TTGGTTGTAT TAATTCCTCA	
consePGIintUNTBrapaA	TGGAAGGTAC	AGTGGTAAGT GCTTGTAT TTGGTTGTAT TAATTCCTCA	
ConsePGIintUNTRRH1	TGGAAGGTAC	AGTGGTAAGT GCTTGTAT TTGGTTGTAT TAATTCCTCA	
PGIBo-EM:AF258277	TGGAAGGTAC	AGTGGTAAGT GCTTGTAT TTGGTTGTAT TAATTCCTCA	
PGIBra-EM:AF258278	TGGAAGGTAC	AGTGGTAAGT GCTTGTAT TTGGTTGTAT TAATTCCTCA	
consePGIintUNTBolera	TGGAAGGTAC	AGTGGTAAGT GCTTGTAT TTGGTTGTAT AAATTCCTCG	
consePGIintUNTR2000	TGGAAGGTAC	AGTGGTAAGT GCTTGTAT TTGGTTGTAT AAATTCCTCG	
Consensus	tggaaaggta	ctggtaagt gcttgttat ttgggttat aatttctc.	
	551		600
consePGIintTUNDrakka	TCCATTC	TTGCTTAGT GATAACTGA AATTCTTTG CAGTTGCAG	
consensWesrPGI	TCCATTC	TTGCTTAGT GATAACTGA AATTCTTTG CAGTTGCAG	
consePGIintUNTR113	TCCATATCCG	TTGCTTAGT TTATAACTGA AATTCTTTG CAGTTGCAG	
consePGIintUNTBrapaA	TCCATATCCG	TTGCTTAGT TTATAACTGA AATTCTTTG CAGTTGCAG	
ConsePGIintUNTRRH1	TCCATATCCG	TTGCTTAGT TTATAACTGA AATTCTTTG CAGTTGCAG	
PGIBo-EM:AF258277	TCCATATCCG	TTGCTTAGT TTATAACTGA AATTCTTTG CAGTTGCAG	
PGIBra-EM:AF258278	TCCATATCCG	TTGCTTAGT TTATAACTGA AATTCTTTG CAGTTGCAG	
consePGIintUNTBolera	TCCATATCCG	TTGCTTAGT TTATAACTGA AATTCTTTG CAGTTGCAG	
consePGIintUNTR2000	TCCATATCCG	TTGCTTAGT TTATAACTGA AATTCTTTG CAGTTGCAG	
Consensus	tccat	tccg cttgcttagt ttataactga aattctttg cagttgcag	
	10	11	
	601		650
consePGIintTUNDrakka	TGCTGTTGGA	GTCTTACCAT TGTCTCTACA GTATGGCTTC TCGGTGGTTG	
consensWesrPGI	TGCTGTTGGA	GTCTTACCAT TGTCTCTACA GTATGGCTTC TCGGTGGTTG	
consePGIintUNTR113	TGCTGTTGGA	GTCTTACCAT TGTCTCTACA GTATGGCTTC TCCGTGGTTG	
consePGIintUNTBrapaA	TGCTGTTGGA	GTCTTACCAT TGTCTCTACA GTATGGCTTC TCCGTGGTTG	
ConsePGIintUNTRRH1	TGCTGTTGGA	GTCTTACCAT TGTCTCTACA GTATGGCTTC TCCGTGGTTG	
PGIBo-EM:AF258277	TGCTGTTGGA	GTCTTACCAT TGTCTCTACA GTATGGCTTC TCGGTGGTTG	
PGIBra-EM:AF258278	TGCTGTTGGA	GTCTTACCAT TGTCTCTACA GTATGGCTTC TCGGTGGTTG	
consePGIintUNTBolera	TGCTGTTGGA	GTCTTACCAT TGTCTCTACA GTATGGCTTC TCGGTGGTTG	
consePGIintUNTR2000	TGCTGTTGGA	GTCTTACCAT TGTCTCTACA GTATGGCTTC TCGGTGGTTG	
Consensus	tgctgttga	gtcttaccat tgtctctaca gtatggcttc tcgtgggtt	
	12		
	651		700
consePGIintTUNDrakka	AGAAGTACGG	TACCTTCTAC TTTATCAGCC ATTCATAAA ATGCTTGG	
consensWesrPGI	AGAAGTACGG	TACCTTCTAC TTTATCAGCC ATTCATAAA ATGCTTGG	
consePGIintUNTR113	AGAAGTACGG	TACCTTCTAC TTTATTAGCC ATTCATAAA ATGCTTGG	
consePGIintUNTBrapaA	AGAAGTACGG	TACCTTCTAC TTTATTAGCC ATTCATAAA ATGCTTGG	
ConsePGIintUNTRRH1	AGAAGTACGG	TACCTTCTAC TTTATTAGCC ATTCATAAA ATGCTTGG	
PGIBo-EM:AF258277	AGAAGTACGG	TACCTTCTAC TTTATTAGCC ATTCATAAA ATGCTTGG	
PGIBra-EM:AF258278	AGAAGTACGG	TACCTTCTAC TTTATTAGCC ATTCATAAA ATGCTTGG	
consePGIintUNTBolera	AGAAGTACGG	TACCTTCTAC TTTATCAGCC ATTCATAAA A.GTCTTGG	
consePGIintUNTR2000	AGAAGTACGG	TACCTTCTAC TTTATCAGCC ATTCATAAA ATGCTTGG	
Consensus	agaagtacgg	taccttctac tttatcagcc attcataaa atgtcttgg	

Figure 14 (c)

Figure 14 (d)

	951	1000
consePGIinTUNDrakka	ACAGTTTTTC TTGTCTTTT GCTATGCCCA TCAACACTAG AAGATTCTGTG	
consensWesrPGI	ACAGTTTT.C TTGTCTTTT. GCTATGTCCA TCAACACTAG A.GATTCTGTG	
consePGIintUNTR113	ACAGTTTT.C TTGCCTTTTT GCTAT..AGG GCAAC.CTAG A.GATTCATG	
consePGIintUNTBrapaA	ACAGTTTT.C TTGTCTTTT. GCTATG.TCA TCAAC.CTAG A.GATTCATG	
ConsePGIintUNTRRH1	ACAGTTTT.C TTGTCTTTTT GCTAT...AT GCAACCCTAG ..GATTCATG	
PGIBo-EM:AF258277	.....
PGIBra-EM:AF258278	.....
consePGIintUNTBolera	ACAGTTTT.C TTGTCTTTTT GCTAG..TGA TCAAC.CTAG A.GATTCTGTG	
consePGIintUNTR2000	ACAGTTTT.C TTGTCTTTTT GCTATGTCCA TCAACACTAG A.GATTCTGTG	
Consensus	acagtttt.c ttgtcttttt gctat...a tcaac.ctag a.gattc.tg	
	21	
	1001	1050
consePGIinTUNDrakka	AAGTTATTAG TGTAGCCAAC GCCTAGGGGG AGGTTGGTTG GCTGTTTGG	
consensWesrPGI	AAGTTATTAG TGTAGTCAAC GCA.....	
consePGIintUNTR113	AAGTTATTAG TGTAGTCAAC GCAGAGGAGA G..TTCACTG ACGG.....	
consePGIintUNTBrapaA	AAGTTATTAG TGTAGTCAAC GCAGAGTGAG AGG.TGATTG ..	
ConsePGIintUNTRRH1	AAGTTATTAG TGTAGTCAAC GCAGAGGGAG AGATGGTT..	
PGIBo-EM:AF258277	.....
PGIBra-EM:AF258278	.....
consePGIintUNTBolera	AAGTTATTAG TGTAGTCAAC GCATAGGGAG AGC.....	
consePGIintUNTR2000	AAGTTATTAG TGTAGTCAAC GCATAGGGAG AGGTGAT.GG TGACTTTGG	
Consensus	aagttattag tgtagtcaac gca.agg.g. .g.....	
	1051	1076
consePGIinTUNDrakka	ACGTTTCAC GTGCTCCGGG GGGTTTTGG GGACCAAACC CCCAAC	
consensWesrPGI	.....
consePGIintUNTR113	.....
consePGIintUNTBrapaA	.....
ConsePGIintUNTRRH1	.....
PGIBo-EM:AF258277	.....
PGIBra-EM:AF258278	.....
consePGIintUNTBolera	.....
consePGIintUNTR2000	ACGATTCAG GTGCTTAGG GTTATTG.....	

Figure 15 (a)

EMBH44836anti	51	100
GCP18-5CP418L-Sams	.....	.....
GCP18-2CP418L-Wes	.....	.....
GCP18-4CP418L-R2000	.....	.....
conse129bal-Drak	.....	.....
GCPS18-129Sam-ba2	.....	.....
GCP18-3129R211-ba2	.....	.....
GCP18-10129R20-ba2	.....	.....
Consensus	.....	.....
EMBH44836anti	101	150
GCP18-5CP418L-Sams	.....	.....
GCP18-2CP418L-Wes	.....	.....
GCP18-4CP418L-R2000	.....	.....
conse129bal-Drak	.....	.....
GCPS18-129Sam-ba2	.....	.....
GCP18-3129R211-ba2	.....	.....
GCP18-10129R20-ba2	.....	.....
Consensus	.....	.....
EMBH44836anti	151	200
GCP18-5CP418L-Sams	.....	.....
GCP18-2CP418L-Wes	.....	.....
GCP18-4CP418L-R2000	.....	.....
conse129bal-Drak	.....	.....
GCPS18-129Sam-ba2	.....	.....
GCP18-3129R211-ba2	.....	.....
GCP18-10129R20-ba2	.....	.....
Consensus	.....	.....
EMBH44836anti	201	250
GCP18-5CP418L-Sams	.....	.....
GCP18-2CP418L-Wes	.....	.....
GCP18-4CP418L-R2000	.....	.....
conse129bal-Drak	.....	.....
GCPS18-129Sam-ba2	.....	.....
GCP18-3129R211-ba2	.....	.....
GCP18-10129R20-ba2	.....	.....
Consensus	.....	.....
EMBH44836anti	251	300
GCP18-5CP418L-Sams	.....	.....
GCP18-2CP418L-Wes	.....	.....
GCP18-4CP418L-R2000	.....	.....
conse129bal-Drak	.....	.....
GCPS18-129Sam-ba2	.....	.....
GCP18-3129R211-ba2	.....	.....
GCP18-10129R20-ba2	.....	.....
Consensus	.....	.....
EMBH44836anti	301	350
GCP18-5CP418L-Sams	A	.....
GCP18-2CP418L-Wes	A	.....
GCP18-4CP418L-R2000	A	.....
conse129bal-Drak	A	.....
GCPS18-129Sam-ba2	A	.....
GCP18-3129R211-ba2	A	.....
GCP18-10129R20-ba2	A	.....
Consensus	tttctgt.aa tgtttccatc aaaatgacta tcgaacataa ttaatataac	.....

Figure 15 (b)

351 400

EMBH44836anti TGAGCTTAAT ATCACCCAA. GATGTTCA ATCAGAT AAA GAGTAACGAC
 GCP18-5CP418L-Sams TGAGCTTAAT ATCACCCAAA GATGTTCA ATCAGAT AAA GAGTAACGAC
 GCP18-2CP418L-Wes TGAGCTTAAT ATCACCCAAA GATGTTCA ATCAGAT AAA GAGTAACGAC
 GCP18-4CP418L-R2000 TGAGCTTAAT ATCACCCAAA GATGTTCA ATCAGAT AAA GAGTAACGAC
 conse129bal-Drak TGAGCTTAAT ATCACCCAAA GATGTTCA ATCAGAT AAA GAGTAACGAC
 GCPS18-129Sam-ba2 TGAGCTTAAT ATCACCCAAA GATGTTCA ATCAGAT AAA GAGTAACGAC
 GCPR18-3129R211-ba2 TGAGCTTAAT ATCACCCAAA GATGTTCA ATCAGAT AAA GAGTAACGAC
 GCP18-10129R20-ba2 TGAGCTTAAT ATCACCCAAA GATGTTCA ATCAGAT AAA GAGTAACGAC
 Consensus TGAGCTTAAT ATCACCCAAA GATGTTCA ATCAGAT AAA GAGTAACGAC

401

EMBH44836anti ATCGTTTGAGATTAGAACAA
 GCP18-5CP418L-Sams ATCGTTTGAGATTAGAACAA
 GCP18-2CP418L-Wes ATCGTTTGAGATTAGAACAA
 GCP18-4CP418L-R2000 ATCGTTTGAGATTAGAACAA
 conse129bal-Drak ATCGTTTGAGATTAGAACAA
 GCPS18-129Sam-ba2 ATCGTTTGAGATTAGAACAA
 GCPR18-3129R211-ba2 ATCGTTTGAGATTAGAACAA
 GCP18-10129R20-ba2 ATCGTTTGAGATTAGAACAA
 Consensus ATCGTTTGAGATTAGAACAA

431 480

EMBH44836anti CTGAAACTTA CGTAGAGTGA TTTGAGGAGT AGGCTCGTTG CCAGCAGAGC
 GCP18-5CP418L-Sams CTGAAACTTA CGTAGAGTGA TTTGAGGAGT AGGCTCGTTG CCAGCAGAGC
 GCP18-2CP418L-Wes CTGAAACTTA CGTAGAGTGA TTTGAGGAGT AGGCTCGTTG CCAGCAGAGC
 GCP18-4CP418L-R2000 CTGAAACTTA CGTAGAGTGA TTTGAGGAGT AGGCTCGTTG CCAGCAGAGC
 conse129bal-Drak CTGAAACTTA CGTAGAGTGA TTTGAGGAGT AGGCTCGTTG CCAGCAGAGC
 GCPS18-129Sam-ba2 CTGAAACTTA CGTAGAGTGA TTTGAGGAGT AGGCTCGTTG CCAGCAGAGC
 GCPR18-3129R211-ba2 CTGAAACTTA CGTAGAGTGA TTTGAGGAGT AGGCTCGTTG CCAGCAGAGC
 GCP18-10129R20-ba2 CTGAAACTTA CGTAGAGTGA TTTGAGGAGT AGGCTCGTTG CCAGCAGAGC
 Consensus .t.aa.ctta c.tagagtga t.tgaggagt aggctcgttg ccagc.gagc

481 530

EMBH44836anti TAGCTCTCTC CTCCGCCTCA TGAAGCATCT GTTGCACCTG AGACAACCGT
 GCP18-5CP418L-Sams TAGCTCTCTC CTCCGCCTCA TGAAGCATCT GTTGCACCTG AGACAACCGT
 GCP18-2CP418L-Wes TAGCTCTCTC CTCCGCCTCA TGAAGCATCT GTTGCACCTG AGACAACCGT
 GCP18-4CP418L-R2000 TAGCTCTCTC CTCCGCCTCA TGAAGCATCT GTTGCACCTG AGACAACCGT
 conse129bal-Drak TAGCTCTCTC CTCCGCCTCA TGAAGCATCT GTTGCACCTG AGACAACCGT
 GCPS18-129Sam-ba2 TAGCTCTCTC CTCCGCCTCA TGAAGCATCT GTTGCACCTG AGACAACCGT
 GCPR18-3129R211-ba2 TAGCTCTCTC CTCCGCCTCA TGAAGCATCT GTTGCACCTG AGACAACCGT
 GCP18-10129R20-ba2 TAGCTCTCTC CTCCGCCTCA TGAAGCATCT GTTGCACCTG AGACAACCGT
 Consensus tagctctctc ctccgcctca tgaagcatct g.tgcacctg agacaacccgt

531 580

EMBH44836anti GACGAAACTT TCCGATCACC GCCACCAGAA TTGACGCCG CGCATCGGAA
 GCP18-5CP418L-Sams GACGAAACTT TCCGATCACC GCCACCAGAA TTGACGCCG CGCATCGGAA
 GCP18-2CP418L-Wes GACGAAACTT TCCGATCACC GCCACCAGAA TTGACGCCG CGCATCGGAA
 GCP18-4CP418L-R2000 GACGAAACTT TCCGATCACC GCCACCAGAA TTGACGCCG CGCATCGGAA
 conse129bal-Drak GACGAAACTT TCCGATCACC GCCACCAGAA TTGACGCCG CGCATCGGAA
 GCPS18-129Sam-ba2 GACGAAACTT TCCGATCACC GCCACCAGAA TTGACGCCG CGCATCGGAA
 GCPR18-3129R211-ba2 GACGAAACTT TCCGATCACC GCCACCAGAA TTGACGCCG CGCATCGGAA
 GCP18-10129R20-ba2 GACGAAACTT TCCGATCACC GCCACCAGAA TTGACGCCG CGCATCGGAA
 Consensus gacgaaactt tccgatcacc gccaccagaa ttgacgccg cgcatcgaa

581 630

EMBH44836anti GGATCCGAAT CGGGAACCTGG AGTGAACCCG AGCGATCCCG GGAGTGCAC
 GCP18-5CP418L-Sams GGATCCGAAT CGGGAACCTGG AGTGAACCCG AGCGATCCCG GGAGTGCAC
 GCP18-2CP418L-Wes GGATCCGAAT CGGGAACCTGG AGTGAACCCG AGCGATCCCG GGAGTGCAC
 GCP18-4CP418L-R2000 GGATCCGAAT CGGGAACCTG. AGTGAACCCG AGCGATCCCG GGAGTGCAC
 conse129bal-Drak GGATCCGAAT CGGGAACCTGG AGTGAACCCG AGCGATCCCG GGAGTGCAC
 GCPS18-129Sam-ba2 GGATCCGAAT CGGGAACCTGG AGTGAACCCG AGCGATCCCG GGAGTGCAC
 GCPR18-3129R211-ba2 GGATCCGAAT CGGGAACCTGG AGTGAACCCG AGCGATCCCG GGAGTGCAC
 GCP18-10129R20-ba2 GGATCCGAAT CGGGAACCTGG AGTGAACCCG AGCGATCCCG GGAGTGCAC
 Consensus ggatccgaat cgggaactgg agtgaaccg agcgatcccg ggagtgcac

Figure 15 (c)

	631		690		
EMBH44836anti	GGAGCGATGG	AAAAAGAGAG	TGGCACGATT	TCGACGAAGA	GTGGAAGAGG
GCP18-5CP418L-Sams	GGAGCGATGG	AAAAAGAGAG	TGGCACGATT	TCGACGAAGA	GTGGAAGAGG
GCP18-2CP418L-Wes	GGAGCGATGG	AAAAAGAGAG	TGGCACGATT	TCGACGAAGA	GTGGAAGAGG
GCP18-4CP418L-R2000	GGAGCGATGG	AAAAAGAGAG	TGGCACGATT	TCGACGAAGA	GTGGAAGAGG
conse129bal-Drak	GGAGCGATGG	AAAAAGAGAG	TGGCACGATT	TCGACGAAGA	GTGGAAGAGG
GCPS18-129Sam-ba2	GGAGCGATGG	AAAAAGAGAG	TGGCACGATT	TCGACGAAGA	GTGGAAGAGG
GCP18-3129R211-ba2	GGAGCGATGG	AAAAAGAGAG	TGGCACGATT	TCGACGAAGA	GTGGAAGAGG
GCP18-10129R20-ba2	GGAGCGATGG	AAAAAGAGAG	TGGCACGATT	TCGACGAAGA	GTGGAAGAGG
Consensus	ggagcg.tgg	aaaagagag	tggcacgatt	tcgacgaaga	g.ggaagagg
	691		740		
EMBH44836anti	AGAGGGTGGT	GGATAAACTC	GGCTATGATC	AAGTCGTCA	TCGTCCGTAT
GCP18-5CP418L-Sams	AGAGGGTGGT	GGATAAACTC	GGCTATGATC	AAGTCGTCA	TCGTCCGTAT
GCP18-2CP418L-Wes	AGAGGGTGGT	GGATAAACTC	GGCTATGATC	AAGTCGTCA	TCGTCCGTAT
GCP18-4CP418L-R2000	AGAGGGTGGT	GGATAAACTC	GGCTATGATC	AAGTCGTCA	TCGTCCGTAT
conse129bal-Drak	AGAGGGTGGT	GGATAAACTC	GGCTATGATC	AAGTCGTCA	TCGTCCGTAT
GCPS18-129Sam-ba2	AGAGGGTGGT	GGATAAACTC	GGCTATGATC	AAGTCGTCA	TCGTCCGTAT
GCP18-3129R211-ba2	AGAGGGTGGT	GGATAAACTC	GGCTATGATC	AAGTCGTCA	TCGTCCGTAT
GCP18-10129R20-ba2	AGAGGGTGGT	GGATAAACTC	GGCTATGATC	AAGTCGTCA	TCGTCCGTAT
Consensus	agagggtggt	ggataaaactc	gcgtatgatc	aagtcgtca	tcgtccgtga.
	741		pSG129antiU 790		800
EMBH44836anti	TGCCGCCATT	TTTTTTGTCA	GGGGCGCTCTG	TGGCTT	<u>AGAA</u> GTTTCCGTATG
GCP18-5CP418L-Sams	TGCCGCCATT	TTTTTTGTCA	GGGGCGCTCTG	TGGCTT	<u>AGAA</u> GTTTCCGTATG
GCP18-2CP418L-Wes	TGCCGCCATT	TTTTTTGTCA	GGGGCGCTCTG	TGGCTT	<u>AGAA</u> GTTTCCGTATG
GCP18-4CP418L-R2000	TGCCGCCATT	TTTTTTGTCA	GGGGCGCTCTG	TGGCTT	<u>AGAA</u> GTTTCCGTATG
conse129bal-Drak	TGCCGCCATT	TTTTTTGTCA	GGGGCGCTCTG	TGGCTT	<u>AGAA</u> GTTTCCGTATG
GCPS18-129Sam-ba2	TGCCGCCATT	CTTGTTCAC.	GGCGCTCTG	GGT.....	.....
GCP18-3129R211-ba2	TGCCGCCATT	CTTGTTCAC.	GGCGCTCTG	GGT.....	.....
GCP18-10129R20-ba2	TGCCGCCATT	CTTGTTCAC.	GGCGCTCTG	GGT.....	.....
Consensus	tgccgcat.	tt.....c.	gg.gc.c.g	.....	.....
	791				
EMBH44836anti	TCAATGAAC	A GTGACACGAC	GAAATGC		
GCP18-5CP418L-Sams	TCAATGAAC	AGAAT...TC	CGGG...		
GCP18-2CP418L-Wes	TCAATGAAC	AGATTATTC	CGATG..		
GCP18-4CP418L-R2000	.....	.....	.....
conse129bal-Drak	.....	.....	.....

Figure 16

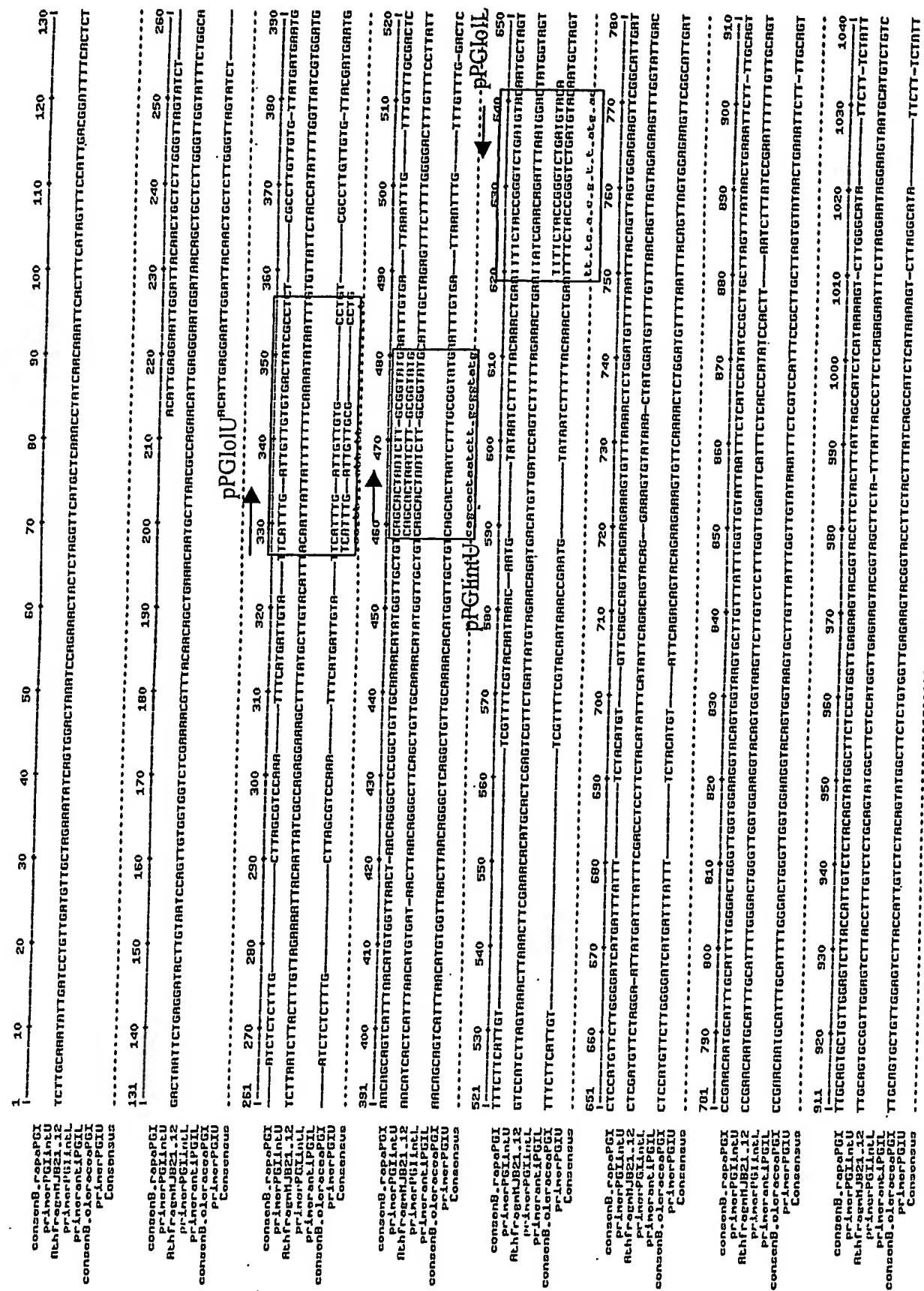


Figure 16 BIS

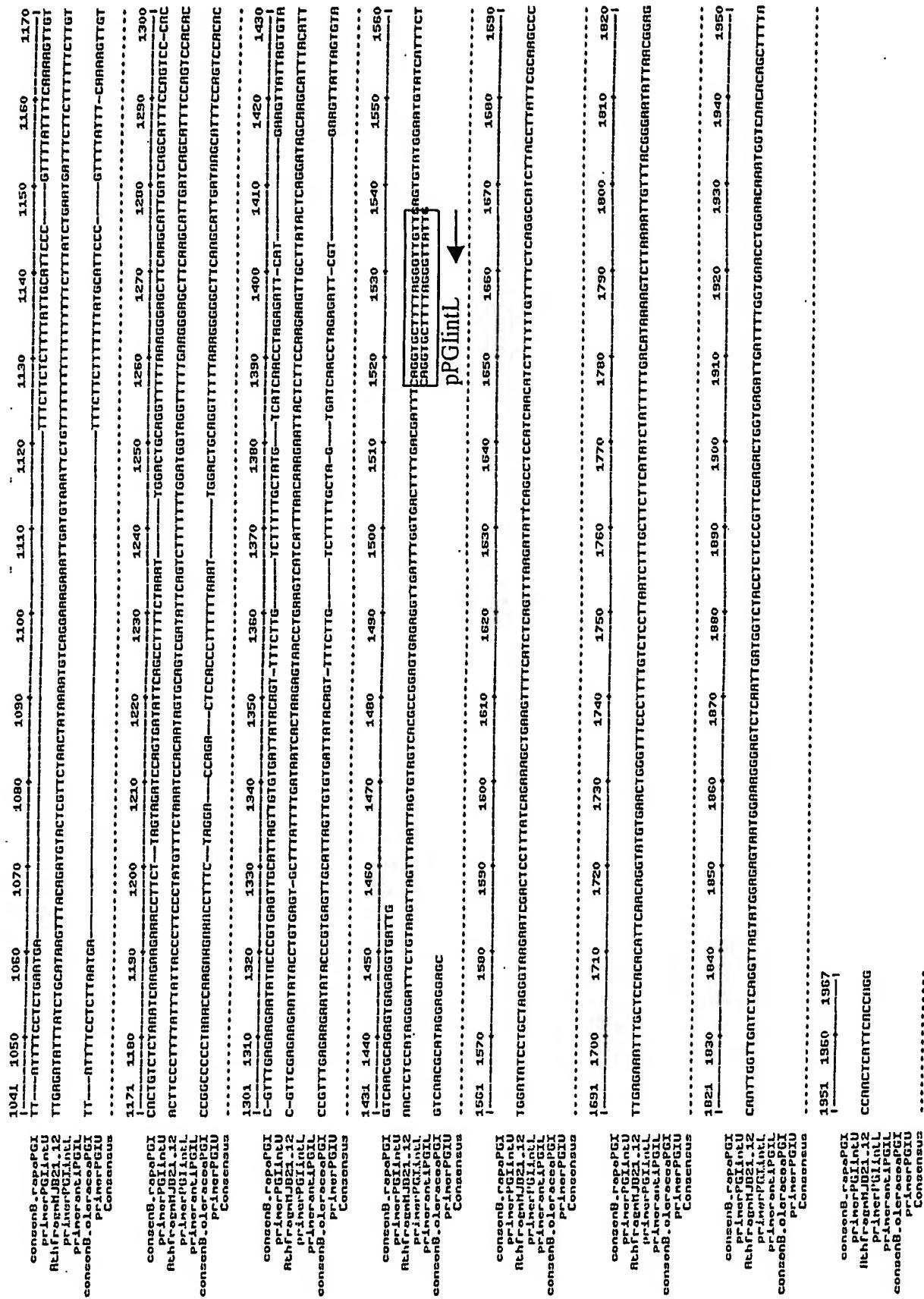


Figure 17

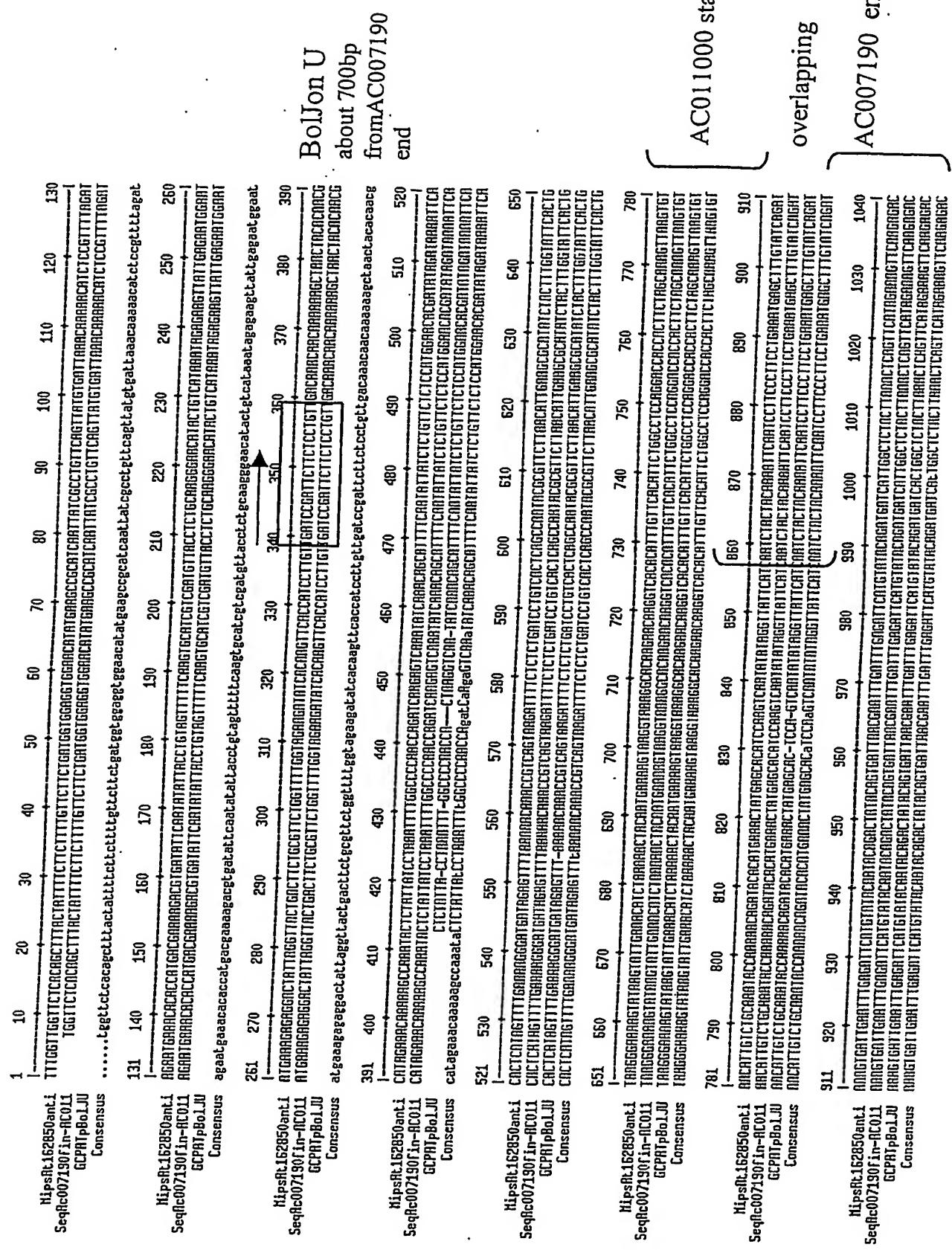


Figure 17 BIS

